

**Claims**

1. Apparatus for detecting the location of electrical activity in the wall of a human bladder.
- 5 2. Apparatus according to claim 1 and comprising an expandable device adapted for passage through the urethra in a collapsed condition and reversibly expandable when in the bladder.
- 10 3. Apparatus according to claim 2 and including an external telescopic connector whereby relative telescoping movement causes the device to expand and contract on demand.
4. Apparatus according to claim 2 and comprising an inflatable device.
- 15 5. Apparatus according to claim 4 wherein said device includes an inflation lumen having an external closure.
6. Apparatus according to any of claims 2-5 and further including a fluid lumen adapted to permit filling of the bladder from the exterior.
- 20 7. Apparatus according to any preceding claim and comprising an array of detection sites adapted detect electrical activity in the wall of the bladder whereby the location of said electrical activity can be determined.
- 25 8. Apparatus according to any preceding claim and further including an ablation tool adapted for insertion through the urethra and operable to ablate the internal surface of the bladder wall.
- 30 9. Apparatus according to claim 8 wherein the tip of said tool is detectable by position sensing apparatus.

10. Apparatus according to claim 9 wherein the tip of said tool is adapted to be electrically active and wherein said apparatus is adapted to detect said activity.